

SPECIFICATION AMENDMENTS:

Please amend the specification as follows:

Page 1, line 11, through line 27, please amend the current paragraphs as follows:

--Accordingly, ozone generally exists in the gas form and is a kind of most efficient bactericide, ~~decade~~ many times more powerful than other disinfectant drugs. The chemical character of ozone is unstable thus it is easily ~~to combine~~ combines with other molecules, oxidizes other substance and itself is reduced into oxygen, which is a harmless substance. Therefore, ozone is the most evaluated disinfectant, which has a ~~flash~~ quick and efficient effect on killing bacteria or other microorganisms without the problem of ~~residual~~ residue.

Due to the character of ~~being~~ easily ~~combining~~ combinable with other molecules, ozone currently is used for cleaning and deodorization of air. By ozonation, passing ozone through water, ozone is used for disinfection of ~~apparatus~~ apparatuses or green food, freshening food, and removing pesticide. ~~Act as~~ As a disinfectant, ozone is often only for external use, such as on broken ~~wound~~ wounds on skin, ~~haven't~~ and hasn't been applied ~~on~~ for internal use of human bodies. However, the abuse of antibiotics causes more ~~stains~~ strains of drug-resistant bacteria. Thus, more and more diseases are difficult to be eradicated. Therefore, there is an urgent need to apply ozone to internal use of human bodies since ozone is an extremely powerful biocide against most kinds of microorganisms.--

AMENDMENT

09/977,966

Page 2, line 3, through Page 3, line 28, please amend the current paragraphs as follows:

--It is therefore a primary object of the present invention to provide an ozone hemodiafiltration device which passes ozone into the human bodies as a powerful disinfectant without the problem of residual residuals, so as to cure people of diseases caused by bacteria, virus or even cancer cells.

BRIEF DESCRIPTION OF THE DRAWINGS

The accomplishment of the above-mentioned object of the present invention will become apparent from the following description and its accompanying ~~drawings~~ drawing which disclose an illustrative ~~an~~ embodiment of the present invention, and are as follows:

Fig. 1 is a schematic diagram of circuits of an ozone hemodiafiltration device in accordance with the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Refer to Fig.1,~~the~~ The present invention includes ozone hemodiafiltration device 1 having a dialysate fluid circuit 10, extracorporeal circuit for blood 20 and a replenishing solute circuit 30. The function of the dialysate fluid circuit 10 is to provide aseptic isotonic solution into a dialyzer (artificial kidney) 40. The isotonic solution is composed of mixture of reverse osmosis (RO) water, mineral, and chemical ~~concentrate~~

concentrates in a specific ratio. The isotonic solution is conducted to dialyzer 40 and ~~replaces continually~~ is continuously replaced for efficient ~~removing~~ removal of wastes by solute diffusion and then is discharged by ~~a pump~~ pumps 11.

The extracorporeal circuit for blood 20 draws the blood flow from human body, passing through the dialyzer 40, and then ~~turn~~ turns back to the human blood vessels.

The replenishing solute circuit 30 is to conduct the isotonic solution 40 through a filter 50 for re-filtration and then the isotonic solution 40 is transported directly into the extracorporeal circuit for blood 20 and enters the human bodies for water supplement.

The feature of the present invention is that an ozone (O₃) generator 60 is disposed before the water inlet end of the dialysate fluid circuit 10. The ozone (O₃) generator 60 is used to convert the reverse osmosis (RO) water into an ozone water solution and then the ozone aqueous is mixed with the isotonic solution. The flow of the isotonic solution with aqueous ozone is under control and is continuously injected into human bodies through the replenishing solute circuit 30 and the extracorporeal circuit for blood 20. The ozone in blood of patient ~~keeps~~ is kept at 3-6 ppm concentrations and flows around the whole body for a long-term effect against microorganisms.

For precisely monitoring the concentration of ozone in blood, a monitor 12 is installed at the water inlet end of the ozone water solution for monitoring the ozone concentration

momently for reference of adjusting the flow of pump 31. Thus the ozone concentration in human bodies can be easily and precisely controlled at 3-6 ppm concentrations.

Although ozone is easy to breakdown into water and oxygen or reduced by other substance into oxygen during several minutes or seconds, a therapy ~~eirole~~ circle of the present invention - hemodialysis machine 1 takes at least 2-4 hours and during this period the present invention provides an adequate amount of ozone continuously so as to keep certain concentrations of ozone. Sufficient time for reaction and stable concentrations of ozone, both make ozone effectively kill microorganisms such as bacteria, virus and cancer cell inside human bodies.--